Sequence Listing

<110> Botstein, David

Desnoyers,Luc

Ferrara, Napoleone

Fong, Sherman

Gao, Wei-Qiang

Goddard, Audrey

Gurney, Austin L.

Pan, James

Roy, Margaret Ann

Stewart, Timothy A.

Tumas, Daniel

Watanabe, Colin K.

Wood, William I.

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Phe Ala Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val
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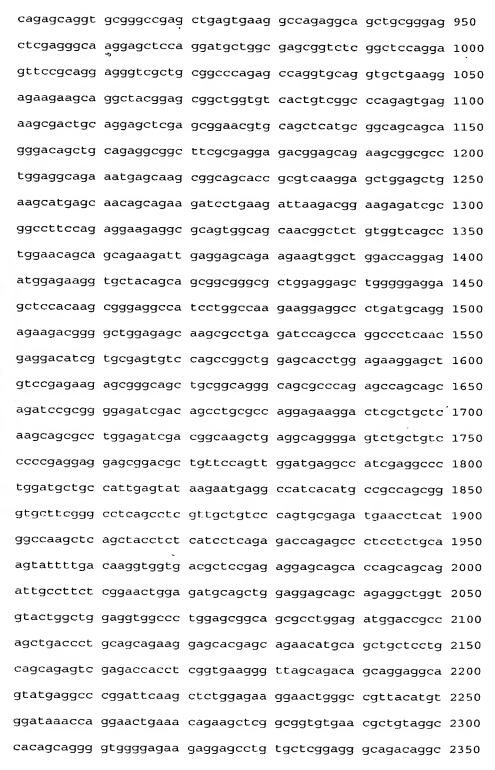
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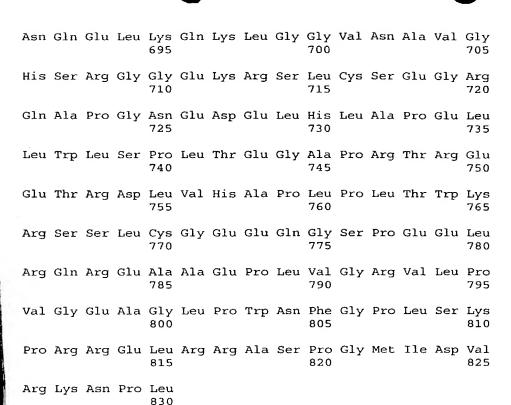
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Pro	Glu	Leu	Cys	Leu 155	Glu	Glu	Leu	Asp	Ala 160	Ala	Ile	Pro	Gly	Ser 165
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Pro	Pro	Ala	Thr	Ala 185	Ser	Glu	Trp	Arg	Leu 190	Ala	Gln	Ala	Gln	Gln 195
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Lys Ile Tyr Asn Pro Ser Glu Gln Cys Cys Tyr Asp Asp Ala Ile 50 55 60

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Trp Pro Cys Phe Glu Leu Cys Cys Pro Glu Ser Phe Gly Pro Gln
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Glu Leu Gly Arg Pro Ala Arg Asp Glu Gly Gly Ser Gly Arg Asp
65 70 75

Trp Lys Ser Lys Ser Gly Arg Gly Leu Ala Gly Arg Glu Pro Trp 80 85 90

Ser Lys Leu Lys Gln Ala Trp Val Ser Gln Gly Gly Ala Lys 95 100 105

Ala Gly Asp Leu Gln Val Arg Pro Arg Gly Asp Thr Pro Gln Ala 110 115 120

Glu Ala Leu Ala Ala Ala Gln Asp Ala Ile Gly Pro Glu Leu 125 130 135

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Arg Gly Lys Gly Cys Val Asp Glu Ser Gly Phe Val Tyr Ala Ile 155 160 · 165

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Thr Glu Glu Gly Pro Leu Cys Ala Gln Pro Glu Cys Pro Arg Leu 185 190 195

His Pro Arg Cys Ile His Val Asp Thr Ser Gln Cys Cys Pro Gln 200 205 210

Cys Lys Glu Arg Lys Asn Tyr Cys Glu Phe Arg Gly Lys Thr Tyr

Gln Thr Leu Glu Glu Phe Val Val Ser Pro Cys Glu Arg Cys Arg

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Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met 50 55 60

Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
65 70 75

Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg 80 85 90

Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg 95 100 105

Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
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Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val 125 130 135

Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile 140 145 150

Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu 155 160 165

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Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln Glu Ile Gly
185 190 195

Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr 200 205 210

Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln

Glu Pro Thr Asp Trp Thr Thr Ser Asn Thr Glu Met Cys Glu Val





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Pro	Ser	Ser	Phe	Leu 380	Leu	Asn	His	Thr	Arg 385	Gln	Ile	Gly	Ile	Phe 390
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Glu	Gly	Gly	Gly	Ala 410	Glu	Gly	Leu	Glu	Ser 415	Leu	Thr	Trp	Gly	Val 420
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Tyr Phe Gly Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu 50 55 60

Leu Ser Gly Pro Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu
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Gly Thr Cys Thr Pro Val Gln Leu Val Ala Leu Ile Arg His Gly 80 85 90

Thr Arg Tyr Pro Thr Val Lys Gln Ile Arg Lys Leu Arg Gln Leu 95 100 105

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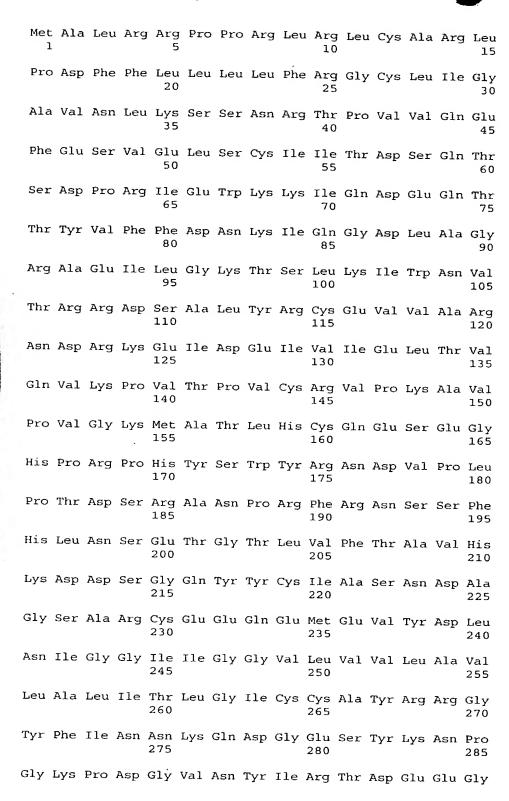
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<213> Homo sapiens

<400> 22

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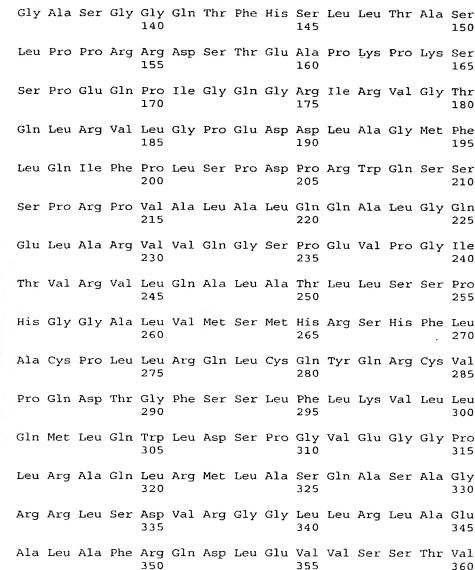
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65 70

Gln Asp Leu Glu Pro Gln Gln Leu Leu Phe Val Gln Ser Phe 80 85 90

Gly Ile Pro Val Ser Ser Met Ser Lys Leu Leu Gln Phe Leu Asp 95 100 105



Arg Ala Val Ile Ala Thr Leu Arg Ser Gly Glu Gln Cys Ser Val

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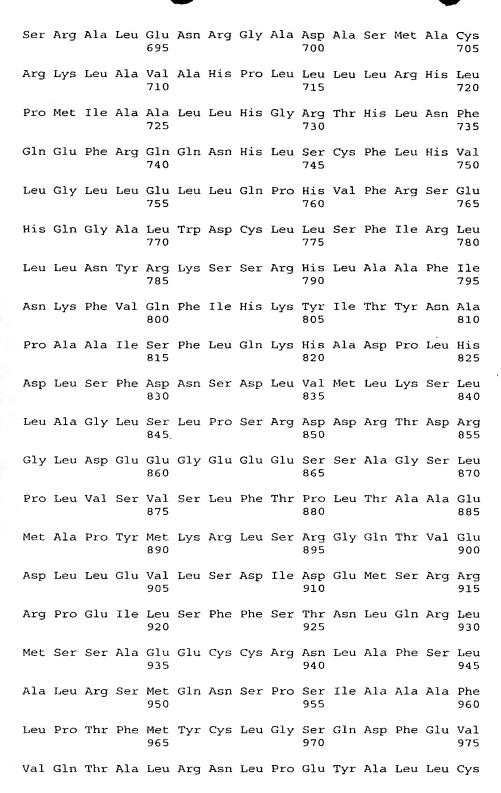
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Asp Lys Asn Tyr Met Ala His Leu Val Glu Val Gln His Glu Arg

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Gly	Pro	Ser	Ser	Gly 455	Leu	Leu	Val	Asp	Trp 460	Leu	Glu	Met	Leu	Asp 465
Pro	Glu	Val	Val	Ser 470	Ser	Cys	Pro	Asp	Leu 475	Gln	Leu	Arg	Leu	Leu 480
Phe	Ser	Arg	Arg	Lys 485	Gly	Lys	Gly	Gln	Ala 490	Gln	Val	Pro	Ser	Phe 495
Arg	Pro	Tyr	Leu	Leu 500	Thr	Leu	Phe	Thr	His 505	Gln	Ser	Ser	Trp	Pro 510
Thr	Leu	His	Gln	Cys 515	Ile	Arg	Val	Leu	Leu 520	Gly	Lys	Ser	Arg	Glu 525
Gln	Arg	Phe	Asp	Pro 530	Ser	Ala	Ser	Leu	48p 535	Phe	Leu	Trp	Ala	Cys 540
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Gln	Lys	Arg	Arg	Glu 560	Glu	Leu	Val	Leu	Arg 565	Val	Gln	Gly	Pro	Glu 570
Leu	Ile	Ser	Leu	Val 575	Glu	Leu	Ile	Leu	Ala 580	Glu	Ala	Glu	Thr	Arg 585
Ser	Gln	Asp	Gly	Asp 590	Thr	Ala	Ala	CAe	Ser 595	Leu	Ile	Gln	Ala	Arg 600
Leu	Pro	Leu	Leu	Leu 605	Ser	Cys	Cys	Cys	Gly 610	Asp	Asp	Glu	Ser	Val 615
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Tyr	Leu	Gln	Arg	Pro 650	Glu	Leu	Arg	Val	Pro 655	Val	Pro	Glu	Val	Leu 660
Leu	His	Ser	Glu	Gly 665	Ala	Ala	Ser	Ser	Ser 670	Val	Cys	Lys	Leu	Asp 675
Gly	Leu	Ile	His	Arg 680	Phe	Ile	Thr	Leu	Leu 685	Ala	Asp	Thr	Ser	Asp 690



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Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly
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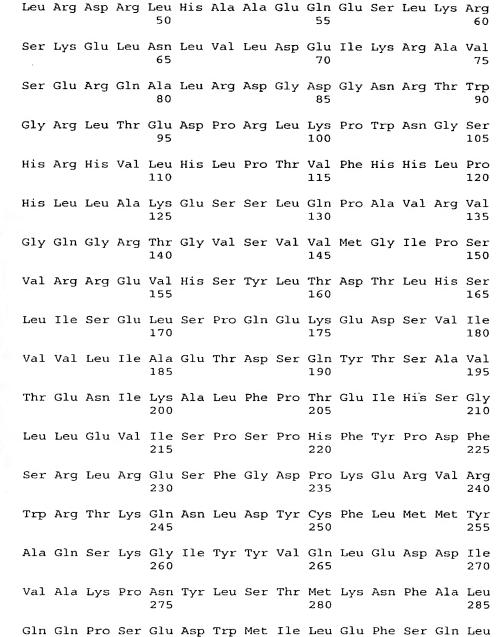
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Val Glu Phe Ile Leu Met Phe Tyr Arg Asp Lys Pro Ile Asp Trp

Gln Lys Gly Asp Val Val Asp Val Tyr Gln Arg Glu Phe Leu Ala



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Ala	Gly	Lys	Ile	Gln 380	Lys	Leu	Lys	Asp	Lys 385	Asp	Phe	Gly	Lys	Gln 390
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Phe	Arg	Ser	Gly	Asn 455	Ile	Glu	His	Pro	Glu 460	Asp	Lys	Leu	Phe	Asn 465
Thr	Ser	Val	Glu	Val 470	Leu	Pro	Phe	Asp	Asn 475	Pro	Gln	Ser	Asp	Lys 480
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Ala	Glu	Gly	Glu	Val 515	Asp	Pro	Ala	Phe	Gly 520	Pro	Leu	Glu	Ala	Leu 525
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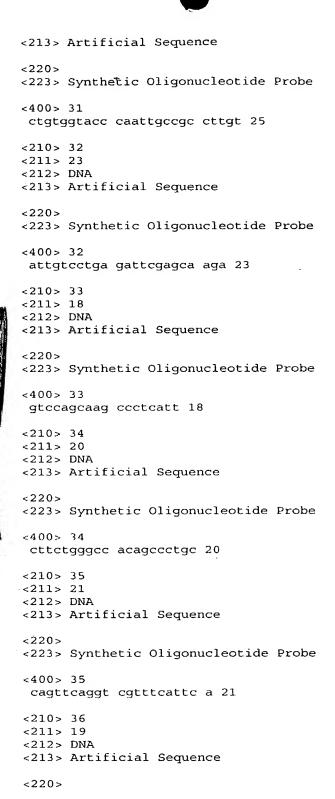
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